

Cancel Claim 3 without prejudice.

Amend Claim 4 as follows:

4. (Amended) A permanent magnet rotary electric machine as set forth in claim 2 wherein all the permanent magnets are of substantially of the same shape a circumferential offset angle of each permanent magnet from a regularly disposed position is set such that a cogging number per rotation of the rotor is equivalent to as the least common multiple of the number S of slots between the electrical winding cores and the number P of magnetic poles.

Amend Claim 5 as follows:

5. (Amended) A permanent magnet rotary electric machine as set forth in claim 2, wherein the magnitude of the torque exerted on each permanent magnet is determined separately by a computer numerical analysis and peaks or bottoms of the torque curves of said permanent magnets are offset from each other with respect to the rotation angle of the rotor so that the cogging number is increased.

Cancel Claim 6 without prejudice.

Amend Claim 7 as follows:

7. (Amended) A permanent magnet rotary electric machine as set forth in claim 4, wherein the number S of slots is eighteen, the number P of magnetic poles is twelve, and the twelve permanent magnets are divided into four sets, each set comprising three circumferentially adjacent permanent magnets, the circumferential pitch angle of the three permanent magnets of each set is 26.7°, and the circumferential pitch angle of adjacent two permanent magnets between the sets is 36.60 °.

Cancel Claim 8 without prejudice.

Amend Claim 9 as follows:

9. (Amended) A permanent magnet rotary electric machine as set forth in claim 4, wherein the number S of slots is eighteen, the number P of magnetic poles is twelve, and the twelve permanent magnets are divided into four sets, two of said four sets comprising three circumferentially adjacent permanent magnets, the circumferential pitch angle of the three permanent magnets of each set is 26.7°, and the circumferential pitch angle of permanent magnets within the other two sets disposed at a symmetrical position is 33.3°.

Cancel Claim 10 without prejudice.

Amend Claim 11 as follows:

11. (Amended) A permanent magnet rotary electric machine as set forth in claim 4, wherein the number S of slots is eighteen, the number P of magnetic poles is twelve, and the

twelve permanent magnets are divided into four sets of three circumferentially adjacent permanent magnets, the circumferential pitch angle of the three permanent magnets of each set is 28.3°, and circumferential pitch angles of adjacent permanent magnets between adjacent different sets are set to 33.3 °, 28.3 °, 33.3 °and 28.3° circumferentially in this order.

Cancel Claim 12 without prejudice.

Add the following new claims:

13. (New A) A permanent magnet rotary electric machine as set forth in claim 1 wherein the coil windings of each group are circumferentially separated from each other by at least one coil winding of another group.

14. (New A) A permanent magnet rotary electric machine as set forth in claim 1 wherein coil windings are formed around each of the cores.

REMARKS

The claims have been reviewed in light of the Examiner's rejections under 35 U.S.C. 112 and appropriate amendments have been made to clarify the claim language. If the Examiner does not believe that these amendments overcome his rejections, he is most courteously solicited to call the undersigned as it is believed that a telephone interview can readily resolve any remaining issues with respect to the claim clarity.

Also, a number of the claims have been cancelled in an effort to advance the prosecution of this application and new Claims 13 and 14 have been added for the Examiner's consideration.

Reconsideration of the rejection of the claims based upon Kordik is most respectfully solicited. It is submitted that the Kordik reference is not a complete disclosure in that the structures shown in FIGS. 3-5 are not at all completely described in the specification. In fact, only one of the reference numerals which appear in FIG. 3 is described in the specification. The only apparent description of FIG. 3 outside of the summary paragraph, appears to be in Column 8, line 64 and carrying on through the next column of the specification wherein only the reference numeral 318 is mentioned and this deals with the use of what appears to be the description of the utilization of non-ferromagnetic cores and hence, something totally alien to what is disclosed and claimed in Applicants' disclosure. Therefore, it is submitted that rejections based upon this reference or at least figures other than FIGS. 1 and 2 should be withdrawn.